

RD-103 TO 8

**SECRET**

SDN No. RD9-1226/23

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A 50 volt bias power supply was shipped to [ ] and two defective units have been returned to [ ] for repair. These are sub-assembly units from the RS-16 Test Power Supply.

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The burned out high power keyer of the AT-4 Transmit System was returned for evaluation of the cause of failure and repair. The repaired and tested unit was shipped out at about mid-month.

Approval has been received to generate spare parts lists for the AS-4A System. Intercabinet cabling drawings for the Receive Terminals are also being prepared for the Government's use.

#### TASK 8. AS-6 DATA TELEMETERING SYSTEM

A new 1700 volt DC to DC converter has been designed for the Converter Package. The redesigned unit provides an improved conversion efficiency of 80% and should eliminate the problem of transistor failure encountered in the earlier model.

#### TASK 9. LINEAR EXCITER FOR THE AS-4A

This program has been delayed indefinitely, pending decisions on its future by Government engineers.

#### TASK 10. FABRICATION OF RS-16B

Work under this Task has been completed except for the delivery of four spare battery packs which are still being fabricated.

#### TASK 11. RS-16B BATTERY CHARGER

Work under this Task has been completed. One copy of the operation and instruction manual was delivered to the Government during the reporting period.

#### TASK 12. RS-16B ANTENNA TUNERS

The mechanical drawings are essentially complete and the first model is in the process of fabrication. Some delays occurred because of the emphasis of higher priority RD-103 tasks.

The following period should see the assembly of and partial testing of the first model.

**SECRET**

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